App. F. IX-4

Previous References 1932. 9. (1 Re)

File No. 212-32

Serial Nos. 1-2, 3

Later References.

PRESERVED

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. Nil

1. 9. 20

Part B for Dec 34

SUBJECT.

Experiments with Cashewnut oil -

WD 01965—GPB—15,000—7-7-34

Serial No.

Letter dated 22nd Feb. 1933 from Messrs Krishna to Director of Rural Mechanical Factories Trichinopoly requesting that the Electricity Department may be asked to find out a proper use of the Cauvery Shall Oil by trying it in Cauvery Mechanical Factory Trichinopoly.

Note with P.W.D.

1) Submitted for perusal. This is rather interesting and may form a subject for investigation by Dr Sreeraman and Rao in consultation with the Forest & Agricultural departments. Copy of this letter will be sent with Dis. Etc for early Report.

(President)

Sd/- M&R
25/2/33

2) "Yes"

(Sd) M.V.A.
27/2/33

Acknowledge letter, early

Sd/- M&R
28/2/33.

3) Sd/- with two drafts for approval

Sd/- R.M.R
2/3/33.

4) Issue

Sd/- M.V.A.
3/3/33

D.L.Dis Dt. 7.3.33

Do Dis Etc

Forwards a copy of the letter dt. 22.2.33 in the matter calls for a report in the matter after making certain investigations.

TYPING SECTION
2 MAR 1933
CTT.

NOTE—Contn. Sheet.

WD 70—GBPM—60,000—13-8-31.

File No. 212 of 1932 | General and Revenue Secretariat

To No. 4699 dy 7th March 1933

Messrs Krishnadeo Trichur

Acknowledge the letter dt 2.2.33 and states that the matter is receiving attention

Sus A
Xmk
24/4/33

Letter no Dz. 59/32-33 from the Dir of Ste. reporting that a report regarding the use of castor oil, shall be submitted after conducting some experiments.

Submitted for perusal. The receipt of further report in the matter may if approved be awaited.

6) For perusal

16/5/33

16 5 33

Second Number.

7) Xmk
17.5.33

Secd
17/5/33

8) Jpr

Secd
17 MAY
No. 779

TO
DEVELOPMENT BRANCH.

Xmk.
18.5.33

Sus A
Xmk
19/5/33

Letter no. Dz-59/32-33 dy 28th March 1934 from the Dir of Ste. reporting that as the firm did not supply the oil free of cost, it is not possible to conduct experiments & stating that it is not possible to take any further action as the firm is outside Mysore.

9) Subs for perusal and orders.

Xmk
29/3/34

10) The question may perhaps be dropped in the circumstances stated

CB
29/3

11) A. Please do.

29/3/34

12) Attended to. Private file up. Dft letter to Dir. as per Asst Secy's oral instructions

CB 30/3/34

(3) 3549

Serial No.

14/ Subs with a draft for approval as the personnel
KwR instructions
24/4/34 CG. 15 App. Issue & submit
25/4/34 WO
3/4/34

Issue & Submit.

TYPING SECTION 4 APR 1934 GENL & REV. SECTT.

11 APR. 1934 2994

No: D 4775/D 6-4-34
Medical Dir of Ste.
Enquiries whether any advice has been made by the Chemist as stated by him that a small quantity of Coal should not be purchased & experiments conducted

Resubmitted as directed in para 15
KwR CG
10/4/34 Subs for perusal after issue
Dev Sec) WO
11/4/34

Mr.
28.4.34

WO
2.5.34

GEN. & REV. SECRETARIAT 1 MAY 1934 DEVELOPMENT BRANCH

State from the Director of Ste
Letter No D-2/59/32-33 dt 17/2/33
State of Mysore Chemist to the Govt
who were asked to report upon
samples of
quantities of the new nut oil
by Messrs of the Kerala Soap Institute

TYPING SECTION 31 JUL. 1934 GENL & REV. SECTT.

NOTE—Contn. Sheet.

Uses of Cashew nut oil.

File No. ( ) of 193 .

General and Revenue Secretariat

3018

replied that he had not the said oil recommend that in the circumstances the matter may be dropped for the present.

In the circumstances the matter may be closed for the present, as suggested by the Director Sub-d for perusal

Yes WQ 29/12

3757 29/12

Dev. Sec'y) WQ 26/12

MAY 2 1 35

WQ 2/1

B

GEN. & DEV. SECTIONS

2 7 JAN. 1935

DEVELOPMENT SECTION

ESTABLISHED 1917.

KRISHNA & CO.,

OWNERS OF RICE MILL
&
CASHEWNUT FACTORIES,
TRICHUR & COCHIN.

CABLE "GOPAL" TRICHUR
TEL. ADDRESS: "KRISHNA" COCHIN
CODES: BENTLEY'S & PRIVATE.

Trichur, 22nd February 1933
Malabar Coast, S. India.

3349
HC 212-32-1.

OFFICE OF THE CHIEF SECRETARY
27 FEB 1933
5504

To
CHIEF SECRETARY
25 FEB. 1933

The Chief Secretary,
The Government of Mysore,
MYSORE.

OFFICE OF THE SECRETARY, STORE PURCHASE COMMITTEE * BANGALORE *
4716.
25 FEB. 1933

Sir,

We have the honour to represent that the "Cashew Shell oil" a by-product of the Cahshew Nut industry is sought in large ~~in~~ quantities in America.

This oil is a dark viscid liquid with a charecteristic smell and consists of gallic acid, cardol, anacardic acidd, and constituents of similar stimulating charecter as cantherdine. We are reliably informed that this oil is largely used in America of late for the manufacture of Bakelite which is extensively used for insulators in Electrical works, radio, dynamos and in thousand other purposes.

As the Electrical department of your Government may be interested in this, we pass on the information to you with a request that the industrial and Electrical departments may be consulted and a proper use of the oil found out.

We are in a posdtion to supply the oil and shall be glad of your enquiries.

We have the honour to be,
Sir,

Your most obedient servants,
Krishna & Co.

Appendix F G—1]

SUBJECT .....

.....

.....

Two drafts
2 copies

Section Dte
File No. 212-32
Serial No. 2

Diary No. of letter replied to .....

No 04498/Com

To Dae Dir & Dte

Sir,

I am directed to forward herewith for favour ~~early~~ report a copy of letter dated 22nd Feb. 1933 received from Messrs Krishna & Co Owners of Rice Mill & Cashewnut Factories Teicher & Co Chain, re: ~~finding out of a way to~~ use of the "Cashew Shell oil" a by-product of the Cashew Nut Industry. The matter may be investigated ~~by Dr. [illegible]~~ in consultation with the Ag. Chemist, Dabas, I have etc

MS 5.3.33 / forwarded to Govt Dev Dept.

General and Revenue Secretariat

( )

the 193 .

Date of issue 7/3/33

Signed by [illegible]

List of enclosures .....

Copied by .....

Examined by .....

4th March 3

The

The Director of Industries and Commerce in Mysore,
Bangalore.

I am directed to forward herewith for favour of report a copy of letter dated 22nd February 1933 received from ~~Ms~~ Messrs. Krishna & Co., Owners of Rice Mill and Cashewnut Factories, Trichur and Cochin, re. the use of "Cashew Shell Oil" a by-product of the Cashew Nut Industry. The matter may be investigated in consultation with the Forest and Electrical Departments.

I have the honor to be,
Sir,
Your most obedient servant,

For Secretary to Government,
Development Department.

TRM.2

Appendix F G—1]

SUBJECT .....

.....

.....

2 copies

Section HC

File No. 212-32

04699 Serial No. 3

Diary No. of letter replied to 33349

No

To Messrs Kuthna & Co
Owners of Rice Mill + Cashew-
nut Factories
Trichur + Cochin.

Sir,

I am directed to acknowledge
with thanks the receipt of your
letter dated 22nd Feb. 1933 re-
~~finding out~~ a way
the ~~finding out of~~ to use of
"Cashew Shell oil" a by-product
in Cashew Nut Industry, and
to state that your request
is ~~receiving~~ the attention of
~~Govt~~ and to say that the
matter is receiving attention
I have etc

General and Revenue Secretariat

( )

the 193 .

Date of issue 7/3/33

Signed by M.M.S.M.Nair

List of enclosures .....

3-3-33

for Secy/Dept

Copied by .....

Dy Dept.

Examined by .....

D 4499

2/4

4th March 3

The

Messrs. Krishna & Co.,
Owners of Rice Mill & Cashew Nut Factories,
Trichur and Cochin.

I am directed to acknowledge with thanks the receipt of your letter dated 22nd February 1933, re. the use of "Cashew Shell Oil" a by-product of the Cashew Nut Industry and to say that the matter is receiving attention.

I have the honor to be,
Sir,
Your most obedient servant,

4.3.33

For Secretary to Government,
Development Department.

TRM.2

Telegraphic Address.—"INDUSCOM."

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

GEN. & REV. SECTT. 15 MAY 1933 DEVELOPMENT BRANCH

In reply please refer to
No. D2-59/32-33
Encl, One.

OFFICE OF THE DIRECTOR,

Dated, Bangalore, 13th May, *193* 3

FROM

A. V. Ramanathan, Esq., B.A.,
~~M.A., B.A.~~
Director of Industries and Commerce in Mysore,
Bangalore, (India.)

DEVELOPMENT SECRETT. 15 MAY 1933

To

S. Abdul Wajid, Esq., B.A.,
Secretary to the Government of Mysore,
Development Department, Bangalore.

SIR,

"Cashew Shell Oil" - Its industrial uses.

With reference to your letter No.D.4498/I&C 212-32-2 dated 7-5-33 forwarding for investigation and report a copy of letter dated 22-2-33 received from Messrs. Krishna & Co., Trichur and Cochin, regarding the use of the above oil, I have the honour to submit for favour of information of Government a copy of the report I have obtained from the Industrial Chemist, Government Soap Factory, in the matter.

I have requested Messrs. Krishna & Co., to supply one tin of the oil to the Industrial Chemist, Government Soap Factory, to enable him to carry on experiments with a view to investigate the possibilities of using the oil for industrial purposes, in consultation with the Forest and Electrical Departments. I shall submit a further report to Government in the matter after the Industrial Chemist conducts the experiments and submits his report.

I have the honour to be,
Sir,
Your most obedient servant,

DIRECTOR.

ks)3.

GOVERNMENT SOAP FACTORY, BANGALORE

5th April 1933.

No: 6481 (Duplicate)

The Director of Industries &

Commerce in Mysore, Bangalore.

Sir,

Ref: Your letter No.D2-193/32-33 dated 10th March 1933.
Re: Cashew shell oil.

I have the honour to inform you that the resinifying properties of this oil have been known on the west coast since times immemorial, and in some south-eastern parts of Mysore State this property was made use of by villagers for giving a multiple coating of this resinified oil over the ordinary bamboo basket work. The articles produced used to go by the name of "Kebbaad" and many household utensils made of this material were being used in all households. Some kind of oil is made use of by the fishermen on the west coast for caulking their boats and for protecting the strings of the fishing nets. I think the Americans have come to know of this property only recently and may be making use of it for some industrial purpose in America.

Messrs. Krishna & Co., Trichur, write/have sent to us that

this oil is made use of in the manufacture of bakelite. I think this is not a correct way of stating it. The oil, may, I think, form the basis of production of other resinified products resembling bakelite. That is all that can be said for it. Many of such articles show very good insulating properties and may find a limited use in the electrical industries, when it can compete in price with other similar articles on the market.

If a small quantity of oil, say a ~~ton~~ tin of it, can be obtained from the suppliers, we can conduct some experiments whether we can turn it into any profitable industrial use in the State. In the meanwhile, I shall try to collect some information from local sources as to the exact process of preparing " ಹೆಬ್ಬೂಟ್ " etc.

I have the honour to be,
Sir,
Your most obedient servant,

Industrial Chemist &
Chemical Engineer.

KC:VRR.

Telegraphic Address.—"INDUSCOM."

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

In reply please refer to
No. D2-59/32-33
Encl.

OFFICE OF THE DIRECTOR,

Dated, Bangalore, 25th March *193* 4

FROM A. V. RAMANATHAN, Esq., B.A.,
~~N. RAMA RAO, Esq., B.A., B.L.,~~
Director of Industries and Commerce in Mysore,
Bangalore, (India.)

To

M. Venkatanaranappa, Esq., B.A.,
Secretary to theGovernment of Mysore,
Development Department, Bangalore.

27. MAR. 1934

SIR,

Cashew Shell Oil - Its uses

With reference to your letter No. R. 4384 dated the 7th/9th Febry. 1934 on the above subject, I have the honor to state that the firm of Messrs. Krishna & Co., who had been requested to send the Industrial Chemist, one tinm of oil as sample, free of cost, to enable him to conduct experiments and submit his report, have not suppliedthe oil. The Industrial Chemist reports that as the firm did not supply the oil, he could not conduct experiments. The firm being outside Mysore, it is not found possible to take any further action.

I have the honor to be,
Sir,
Your most obedient servant,

Director.

usc)

Appendix F G—1]

10

SUBJECT .....

.....

.....

Section Ite.

File No. 212-3

Serial No. 1

No. D 4775

To The Dir of Ite.

Diary No. of letter replied to .....

General and Revenue Secretariat

( )

the 193 .

Date of issue 6/6/34

Signed by M. V. Narayan

List of enclosures .....

Copied by JM 5/6/34

Examined by .....

Sir,

With reference to correspondence ending with your letter No. Dg-59/32-33 Dy 25th March 1934 about the investigation to be made to ascertain the economic use of "Cashew Shell oil" a by-product of the Cashew Nut Industry, I am directed to invite reference to the Industrial Chemist's letter No. 6481 Dy 5th April 1933 addressed to you (returned herewith for reference and retransmission with reply) stating that "Such articles show very good insulating properties and may find a limited use in the Electrical ....

Industries" and that he could collect
from local sources
some information as to the exact
process of preparing "Neem Food" etc,
and to enquire whether any investigation
was made in the matter and if so
with what result.

I am further to enquire why
a small quantity grain oil should
not be purchased from the Company or
elsewhere, and experiments conducted
to find out the economic ~~it~~ value
grain article.

I have etc

WT
3/4/[illegible] Secy to govt
Dev Dept.

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

No. D 4775 / Ic 212-32

Bangalore, Dated, 5th April *193*

From

The *Secretary to the Government of His Highness the Maharaja of Mysore, Development Department.*

To

The Director of Industries and Commerce
in Mysore, Bangalore.

Sir,

With reference to correspondence ending with your letter No.D2-59/32-33 dated 25th March 1934 about the investigation to be made to ascertain the economic use of "Cashew Shell oil" a by-product of the cashew nut industry, I am directed to invite reference to the Industrial Chemist's letter No.6481 dated 5th April 1933 addressed to you (returned herewith for reference and retransmission with reply) stating that "such articles show very good insulating properties and may find a limited use in the Electrical Industries" and that he could collect some information from local sources as to the exact process of preparing "ಗೇರು ಬೀಜ" etc., and to enquire whether any investigation was made in the matter and if so with what result.

I am further to enquire why a small quantity of the oil should not be purchased from the company or elsewhere, and experiments conducted to find out the economic value of the article.

I have the honour to be,
Sir,
Your most obedient servant,

for Secretary to Government,
Development Department.

hks.2

Telegraphic Address:—"INDUSCOM."

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

In reply please refer to
No. D2-59/32-33.
Encl,

OFFICE OF THE DIRECTOR,

Dated Bangalore, 28th August, *193* 4

FROM

A. V. RAMANATHAN, ESQ., B.A.,
Director of Industries and Commerce in Mysore,
Bangalore (India).

DEVELOPMENT SECRETARIAT 30 AUG. 1934

DEVELOPMENT BRANCH. 1 AUG. 1934

To

M. Venkatanaranappa, Esq., B.A.,
Secretary to the Government of Mysore,
Development Department, Bangalore.

SIR,

Cashewnut Shell Oil - Its uses - Experiments.

With reference to your letters No.D.4775/I&C 212-32 dated 6-4-1934 and No.D.884 dated 4-8-1934 on the above subject, I have the honour to forward herewith, for favour of information of Government, a copy of letter dated 26-6-1934 from the Industrial Chemist, Government Soap Factory, Bangalore, to the Superintendent, Kerala Soap Institute, Calicut, and copy of the latter's reply dated 28-6-34 regarding the experiments on the cashewnut shell oil. In view of this reply, the Industrial Chemist raised the point whether it was desirable for us to proceed further in the matter as cashew nuts do not happen to be an indigenous product here. I have, however, in view of your letter dated 6th April 1934, instructed the Industrial Chemist to purchase some oil from Messrs. Pierce Leslie & Co., Ltd., Mangalore, and conduct experiments in the Industrial & Testing Laboratory. On receipt of the report from the Industrial Chemist as to the results of these experiments, I shall submit a further report to Government.

I have the honour to be,
Sir,
Your most obedient servant,

DIRECTOR.

ks)4.

DEVELOPMENT SECRETARIAT 21 SEP. 1934 DEVELOPMENT BRANCH.

(14)

Letter dated 26th June 1934 from the Industrial Chemist, Government Soap Factory, Bangalore, to the Superintendent, Kerala Soap Institute, Calicut.

About a fortnight ago I read in a note in "The Hindu" to say that The Kerala Soap Institute is going to be reorganized and expanded with a view to increased activities. Two items had been mentioned specially. One of them was the investigation of the problems connected with the cashew nut industry. May I know the general lines of investigation and in particular may I know if any experiments are contemplated regarding the use of cashew nut shell oil? It has been mentioned that this particular kind of oil is made use of locally to produce a resin-like substance, which is used for caulking boats and also for covering basketware. Another development mentioned was the manufacture of bakelite. Does it mean that you actually propose to manufacture bakelite itself, or is the idea to import moulding powder from foreign countries and turn out bakelite articles?

Can you kindly let me know where I can have a tin of cashew nut shell oil? Thanking you for an early reply.

Letter dated 28th June 1934 from the Superintendent, Kerala Soap Institute, Calicut, to the Industrial Chemist, Government Soap Factory, Bangalore.

Your letter of the 26th inst. Yes: We have some ambitious schemes for extending the activities of the institute on the research side.

The experiments on cashew nut are mainly to find some uses for the shell oil. It is proposed to make if possible moulding powders locally and to press them into Bakelite articles.

If you write to Messrs. Peirce, Leslie & Co., Ltd., Mangalore, they would supply you with cashew shell oil.

Hope you are doing well. With kind regards.

"C O P I E S"

Director.

ks)2.

9 Ie 212-32-

Telegraphic Address:—"INDUSCOM."

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

In reply please refer to
No. D.2-59/32-33.
Encl.

OFFICE OF THE DIRECTOR,

Dated Bangalore, 15th December 1934.

GEN. & REV. SECRETARIAT
18 DEC. 1934
DEVELOPMENT BRANCH

FROM

A. V. RAMANATHAN, ESQ., B.A.,
Director of Industries and Commerce in Mysore,
Bangalore (India).

To

M. Venkatanaranappa, Esq., B.A.,
Secretary to Government,
Development Department,
Bangalore.

SIR,

Cashewnut Shell Oil - experiments re. its use.

With reference to your letter No. D.2881/ I & C 212-32-R dated 26th October 1934 on the above subject, I have the honour to state that the Industrial Chemist reported to me in his letter No. 3278 dated 17th November 1934 that Messrs. Pierce Leslie & Co. Ltd, Mangalore whom he had addressed to send him one tin of cashewnut shell oil, expressed their inability to send it as they cannot supply the oil in small quantities. The Industrial Chemist had also addressed Mr. A.K.Menon, the Superintendent of the Kerala Soap Institute, for information re. experiments done by him and also to send if possible one tin of the oil. Mr. A.K. Menon has replied to the Industrial Chemist that only some preliminary experiments had been done by him and that the oil collected by him was used up in testing etc.

In these circumstances I would suggest that the matter may be closed for the present.

I have the honour to be,
Sir,
Your most obedient servant,

Director.

PSS-3.